LAND APPLICATION SITE

CARL F. EPPARD

GRCFE 1-8

GREENE COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APP	LICATION AGREEME	ENT - BIOSOLIDS AND IN		
here as "Landowner", and remains in effect until it is t the Landowner in the even individual parcels identified	Recyc Systems, Inc erminated in writing by ei t of a sale of one or more I in this agreement chang		ermittee". This agreement those parcels that are retained by Il parcels changes. If ownership of wnership has changed will no	
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real pro	operty located in	Virginia, which includes lentified on the tax map(s)	
Table 1.: Parcels aut	horized to receive biosoli	ds, water treatment residuals	or other industrial sludges	
Tax Parcel ID	Tax Parcel (D	Tax Parcel ID	Tax Parcel ID)
36-A-ZO				
Additional parcels containing Lan	d Application Sites are identifie	d on Supplement A (check if applica	ble)	a
		owner of the properties identi ultiple owners of the propertie		
within 38 months of the late 1. Notify the purchase later than the date of	st date of biosolids applic or or transferee of the app of the property transfer; a	cation, the Landowner shall: licable public access and cro	ch biosolids have been applied op management restrictions no fer.	
notify the Permittee immedi	ately if conditions change		ed herein. The Landowner will onger available to the Permittee erein contained becomes	
agricultural sites identified a inspections on the land iden	bove and in Exhibit A. T itified above, before, duri	mittee to land apply residuals he Landowner also grants pe ng or after land application of equirements applicable to suc	ermission for DEQ staff to conduct f permitted residuals for the	
Class B biosolids Wate ☑ Yes ☐ No ☑ Ye	r treatment residuals s □ No	Food processing waste ☑ Yes ☐ No	Other industrial sludges Yes D No	
Λ (ε	1		434985	4
ANNE W. Epocad Landowner - Printed Name, Title	Signature	Trustee	3d6 Parker Nitry, Road St Mailing Address & Phone Number	-navioille -122973
manner authorized by the VPA	Permit Regulation and in a	niosolids and/or Industrial residua mounts not to exceed the rates i ertified in accordance with §10,1	als on the Landowner's land in the identified in the nutrient management	
The Permittee agrees to notify	the Landowner or the Lando	owner's designee of the propose	ed schedule for land application and the source of residuals to be applied.	
☐ I reviewed the document(s) a document(s) available to DEQ			wner above. I will make a copy of this r signs this agreement)	
	0			
Strubo	Blue	PO Box 562 I	Remington, Virginia 22734	
Permittee – Authorized Represen Printed Name	tative Signature		Mailing Address	

Rev 9/14/2012

	_	Recyc Sy			_—County or City:	Greene
Lan	downer:	Anne	W.	Eppard	_Trustee	
Lan	downer	Site Manag	gement	: Requirement	s:	
I, the appli	Landowne cation of b	er, I have recei losolids, the co	ived a Di	EQ Biosolids Fact its of biosolids and	Sheet that includes informal proper handling and land a	tion regarding regulations governing the land application of biosolids.
ident	ified below	must be comp	olied with		ve been applied on my prop	irements and site access restrictions perty in order to protect public health, and
	ee to imple olids at the		wing site	management prac	ctices at each site under my	ownership following the land application of
1.		land application				e purpose of identifying my field as a st 30 days after land application at that site is
2.	a. b. c.	Public access any application Public access application of l same period o Turf grown on	n of biose to land v biosolids f time un land whe ested tur	olids. vith a low potentia . No biosolids am less adequate pro ere biosolids are a f is placed on eith	I for public exposure shall be ended soil shall be excavate visions are made to preven pplied shall not be harveste	pe restricted for at least one year following e restricted for at least 30 days following any ed or removed from the site during this t public exposure to soil, dusts or aerosols; and for one year after application of biosolids for public exposure or a lawn, unless
3.	b. c. d. (e.	Food crops with not be harvest Food crops with application of the months prior to Food crops with pipsolids remainstrated crops crop	ed for 14 in harves biosolids bincorpo the harves in on the ps and fi	months after the sted parts below the when the biosolid ration into the soil sted parts below the land surface for a ber crops shall no	application of biosofids. It is surface of the land shall r It is remain on the land surface, It is surface of the land shall r It it is the period of less than for It is the harvested for 30 days a	and are totally above the land surface shall not be harvested for 20 months after the e for a time period of four (4) or more not be harvested for 38 months when the ur (4) months prior to incorporation. after the application of biosolids; f biosolids (60 days if fed to lactating dairy
4.	Follo a. I b. I	vieat producing actating dairy	applicati g livestor animals	ion to pasture or h ck shall not be gra shall not be graze restricted from gra	zed for 30 days, ad for a minimum of 60 days	3.
5.	application	ns such that th	ne total c	rop needs for nutr		with the biosolids and industrial residuals dentified in the nutrient management plan f Virginia;
6.	years follo		ication o	f biosolids or indu		grown on the Landowner's land for three admium equal to or exceeding 0.45
-V-	1-1 - 2	Famord			Trustee	11-26-1-7
, -4	Landowne	er's Signature			11147166	Date
	CUVY Farm Ope	K, ξρε rator Signature	<u>Pard</u>		326 ParkerM	tn Road Stanardsoillo, VA, 23973 19 Address & Phone Number 434-249-2729

Rev 9/14/2012

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APP	LICATION AGREEMENT	BIOSOLIDS AND IND	USTRIAL RESIDUALS
remains in effect until it is to the Landowner in the event individual parcels identified		party or, with respect to the els, until ownership of all p lose parcels for which owr	ose parcels that are retained by parcels changes. If ownership of nership has changed will no
Landowner: The Landowner is the owner the agricultural, silvicultural attached as Exhibit A.	er of record of the real property or reclamation sites identified	/ located in — Greent below in Table 1 and ider	e, Virginia, which includes ntified on the tax map(s)
Table 1.: Parcels aut	horized to receive biosolids, w	ater treatment residuals o	r other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
36 - A-24			
36-6-3			
		<u> </u>	
[] A 1 192	A A - lise lise Oiles are identified - C	unalement A (about if anniholde	
·	d Application Sites are identified on S		
	e Landowner is the sole owner e Landowner is one of multiple		
within 38 months of the late 1. Notify the purchase later than the date of the later than the date of the landowner has no other notify the Permittee immediate.	wher sells or transfers all or past date of biosolids application or transferee of the applicable of the property transfer; and e of the sale within two weeks ar agreements for land applicately if conditions change such fithis agreement becomes invalid	i, the Landowner shall: le public access and crop following property transfer tion on the fields identified in that the fields are no long	management restrictions no therein. The Landowner will ger available to the Permittee
agricultural sites identified a inspections on the land iden purpose of determining com	ntified above, before, during or apliance with regulatory required r treatment residuals Foc	andowner also grants pern after land application of perments applicable to such ad processing waste feed to No	nission for DEQ staff to conduct ermitted residuals for the
anne Colos	rt		
Landowner - Printed Name, Title	Signature		ailing Address & Phone Number
Permittee:	00		434 - 985 -2386
manner authorized by the VPA	Permittee, agrees to apply biosoli Permit Regulation and in amoun plication field by a person certified	ts not to exceed the rates ide	ntified in the nutrient management
	the Landowner or the Landowner ar application to the Landowner's		schedule for land application and e source of residuals to be applied.
	assigning signatory authority to th for review upon request. (Do not c		ner above. I will make a copy of this gns this agreement)
Shubo	Chembro		emington, Virginia 22734
Permittee - Authorized Represen	tative Signature	Ma	ailing Address

Printed Name

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Circene Landowner: Anne Eppard	
Landowner. Arme cppara	
Landowner Site Management Requirements:	
I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations govern application of biosolids, the components of biosolids and proper handling and land application of biosolids.	ning the land
I have also been expressly advised by the Permittee that the site management requirements and site access restricting identified below must be complied with after biosolids have been applied on my property in order to protect public heat that I am responsible for the implementation of these practices.	ons alth, and
I agree to implement the following site management practices at each site under my ownership following the land applications of the site:	plication of
 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application a completed. 	
 2. Public Access a. Public access to land with a high potential for public exposure shall be restricted for at least one year any application of biosolids. b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days for application of biosolids. No biosolids amended soil shall be excavated or removed from the site during same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or c. c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unotherwise specified by DEQ. 	ollowing any ng this r aerosols; of biosolids
 3. Crop Restrictions: a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land sunot be harvested for 14 months after the application of biosolids. b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months a application of biosolids when the biosolids remain on the land surface for a time period of four (4) or months prior to incorporation into the soil, c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months we biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids; e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactate animals). 	fter the more when the on.
 4. Livestock Access Restrictions: Following biosolids application to pasture or hayland sites: a. Meat producing livestock shall not be grazed for 30 days, b. Lactating dairy animals shall not be grazed for a minimum of 60 days. c. Other animals shall be restricted from grazing for 30 days; 	
 Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient managem developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia; 	
 Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0. pounds/acre (0.5 kilograms/hectare). 	
Anno Evard 9-12-14	
Landowner's Signature Date	
Farm Operator Signature Mailing Address & Phone Number	

Rev 9/14/2012 Page 2 of 2

FARM DATA SHEET

SITE NAME:	Carl F. Eppard	COUNTY:	Greene
OWNER:	Carl F. Eppard and Anne W. Eppard and Carl F. Eppard and Anne W. Eppard Trustees of Anne W. Eppard Revocable Trust	OPERATOR:	Darryl K. Eppard
OWNER'S	326 Parker Mtn. Road	OPERATOR'S	326 Parker Mtn. Road
ADDRESS:	Stanardsville, VA 22973	ADDRESS:	Stanardsville, VA 22973
OWNER'S TELEPHONE:	434-985-2386	OPERATOR'S TELEPHONE:	434-249-2729
GENERAL FARM TYPE:	Hay/ Pasture	CELL PHONE:	-
# CATTLE:	45	EMAIL:	Eppardcrowmtn.@aol.com
LAGOON or SLURRY:	None	LATITUDE:	38.276
TOPO QUAD:	Stanardsville	LONGITUDE:	78.468
COMMENTS:		METHOD OF DETERMINATION:	Online Maps
Mr. Carl F. Eppard i property.	s now deceased. His wife	Anne W. Eppard inherited	his share of the
-			

FIELD CHANGES CARL F. EPPARD GREENE COUNTY

FIELD 4 IS NOW DIVIDED INTO TWO FIELDS, FIELD 4 AND FIELD 8.

RECYC SYSTEMS, INC FIELD DATA SHEET

Field	DEQ	Gross	Envir	onmentally S	Sensitive	Soils		Tax	FSA
				Bed	Surfi		Hydro		
Identification	Control ID	Acres	Water Table	Rock/Shallow	Leach	Freq Flood	Map	Мар#	Tract #
			Kn OctMay						
			Hb OctMay						T 245
GRCFE 1	51079-00039-0000	25.3	Cn NovApr.	-1	-	Hb OctMay	JR 10	36-A-20	F 4, 6
			Hb OctMay			Cs FebMay			T 245
GRCFE 2	51079-00040-0000	19.8	Kn OctMay	-	-	Hb OctMay	JR 10	36-A-20	F 3
						Cv NovMay			T 245
GRCFE 3	51079-00041-0000	15.8	Kn OctMay	10.40	-	Cs FebMay	JR 10	36-A-20	F 1, 2, 3
		_	-			Cv NovMay			T 3119
GRCFE 4	51079-00042-0000	12.6	-	-	-	Cs FebMay	JR 10	36-6-3	F 5
			Kn OctMay						T 3119
GRCFE 5	51079-00043-0000	20.8	Cn NovApr.	-	-	Cs FebMay	JR 10	36 - 6-3	F 2, 6, 7
									T 3119
GRCFE 6	51079-00044-0000	5.2	Kn OctMay	-	-	-	JR 10	36 - 6-3	F 3
									T 3119
GRCFE 7	51079-00045-0000	4.3	Kn OctMay	_		-	JR 10	36-6-3	F 1
						Cs FebMay			T 3119
GRCFE 8	51079-00042-0000	5.4	-	_	-	Cv NovMay	JR 10	36-6-3	F 4
							1		
TOTAL ACRES IN SITE		109.2							

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee:

Recyc Systems, Inc

Site Name:

Carl F. Eppard

County or City:

Greene Co.

Please Print

Signature not required on this page

Tax Parcel ID(s)	<u>Landowners (s)</u>
36-A-20	Carl F. Eppard and Anna W. Eppard Trustees of Anne W. Eppard Revocable Trust
36-A-24	Carl F. and Anne W. Eppard
36-6-3	Carl F. and Anne W. Eppard
_	

Page 1 of 1

Report Number: 17-270-0631

Account Number: 70594

Send To: Recyc Systems Inc

Susan Trumbo

8455 Whiteshop Road Culpepper VA 22701



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

Grower: Farm Name: Carl Eppard

Creene Co

SOIL ANALYSIS REPORT

Analytical Method(s):

SMP Buffer pH

Mehlich 3 Loss On Ignition Water pH

Date Received: 09/27/2017

Date Of Analysis: 09/28/2017

Date Of Report: 09/28/2017

0		ОМ	W/V	ENR		Phosphoi	rus		Potassium	Magnesium	Calcium	Sodium	р	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm F	Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
6	03411	5.8 H		150	39 M				56 L	179 H	1234 M		5.9	6.77	1.6	9.4

"Every acre...Every year."™

		Percei	nt Base	Saturati	on_	Nitrate	Sulfur	Zir	nc	Manga	nese	Iron	Copper	Boron	Soluble Salts	
Sample ID Field ID	K	Mg	Ca	Na	Н	NO ₃ N	S	Zı	n	М	n T	Fe	Cu	В	SS	
Tiola is	%	%	%	%	%	ppm Rate	ppm Rate	ppm	Rate	ppm	Rate	ppm Rate	ppm Rate	ppm Rate	ms/cm Rate	
6	1.5	15.9	65.6		17.0			2.9	М	37	Н					
											ľ					

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High), ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), tbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meg/100g (milli-equivalent per 100 grams). Conversions; ppm x 2 = lbs/A. Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested, Samples are retained a maximum of thirty days after testing.

Analysis prepared by Waypoint Analytical Virginia, Inc.

by Pauric Me Geory

Pauric McGroary

Date Received: 09/27/2017 Date Of Report: 09/28/2017

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K ₂ O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn Ib/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
6	Adjust pH to 6.8	0	1.8				0			0			

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Page 1 of 3

Report Number: 17-243-0561

Account Number: 70594



7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

Send To: Recyc Systems Inc

Susan Trumbo

8455 Whiteshop Road Culpepper VA 22701

"Every acre...Every year." 744

Grower: Carl F. Eppard Greene Co.

SOIL ANALYSIS REPORT

Analytical Method(s):

SMP Buffer pH

Mehlich 3 Loss On Ignition Water pH

Date Received: 08/31/2017

Date Of Analysis: 09/01/2017

Date Of Report: 09/01/2017

		ОМ	W/V	ENR		Phosphorus		Potassium	Magnesium	Calcium	Sodium	t	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
2	21327	6.2 H		150	41 M			125 H	165 H	1072 M		6.2	6.83	1.0	8.1
3	21328	6.8 H		150	171 VH			104 L	170 M	1816 H		6.7	6.88	0.5	11.3
4,8	21329	6.5 H		150	148 VH			142 H	212 H	1031 M		5.8	6.76	1.7	9.0
5	21330	6.6 H		150	51 H			76 L	197 H	1222 M		6.0	6.79	1.4	9.3
6	21331	5.5 H		147	29 L			45 VL	171 H	1344 H		6.2	6.82	1.1	9.4

		Perce	nt Base	Saturati	on	Nitrate	Sulfur	Zir	nc	Manga	anese	Iro	n	Copper	Boron	Soluble Salts	
Sample ID Field ID	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Z ppm	n Rate	ppm		Fe ppm		Cu ppm Rate	B ppm Rate	SS ms/cm Rate	
2	4.0	17.0	66.2		12.3			2.4	М	53	VH						
3	2.4	12.5	80.4	_	4.4			4.4	Н	68	VH						
4,8	4.0	19.6	57.3	_	18.9			7.4	Н	48	Н						
5	2.1	17.7	65.7		15.1			3.7	Н	56	VH						
6	1.2	15.2	71.5		11.7			2.1	L	43	Н		_				

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm \times 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: Pauric Mc Georg

Page 2 of 3

Report Number: 17-243-0561

Send To: Recyc Systems Inc Susan Trumbo

Account Number: 70594

Waypoint Waypoint

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre...Every year." TM

Grower: Carl F. Eppard Greene Co.

Date Received: 08/31/2017

8455 Whiteshop Road

Culpepper VA 22701

Date Of Report: 09/01/2017

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K ₂ O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn lb/A	lron Fe lb/A	Copper Cu Ib/A	Boron B Ib/A
2	Adjust pH to 6.8	0	1.3				0			0			
3	Adjust pH to 6.8	0	1.0				0			0	_		
4,8	Adjust pH to 6.8	0	1.8				0		_	0			
5	Adjust pH to 6.8	0	1.5				0			0			
6	Adjust pH to 6.8	0	1.3				0			0			

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric Mc George

Pauric McGroary

Page 3 of 3

Report Number: 17-243-0561

Send To: Recyc Systems Inc Susan Trumbo

8455 Whiteshop Road

Culpepper VA 22701

Account Number: 70594

Waypoin

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"Every acre...Every year."™

Grower: Carl F. Eppard Greene Co.

SOIL ANALYSIS REPORT

Analytical Method(s):

SMP Buffer pH

Mehlich 3 Loss On Ignition Water pH

Date Received: 08/31/2017

Date Of Analysis: 09/01/2017

Date Of Report: 09/01/2017

ľ			ОМ	W/V	ENR		Phosphorus		Potassium	Magnesium	Calcium	Sodium	р	Н	Acidity	C.E.C
	Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soit pH	Buffer Index	H meq/100g	meq/100g
Î	7	21332	6.7		150	59 H			81 L	192 H	1290 M		6.1	6.80	1.3	9.6
1			Н													

		Perce	nt Base	Saturati	on	Nitrate	Sulfur	Zinc	Manganese	Iron	Copper	Boron	Soluble Salts	
Sample ID Field ID	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Zn ppm Rate	Mn ppm Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	
7	2.2	16.7	67.2		13.5			3.9 H	57 VH					

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: Waypoint Analytical Virginia, Inc.

by: Pauric Mc Geory

Pauric McGroary

Date Received: 08/31/2017

Date Of Report: 09/01/2017

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K₂O lb/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn lb/A	Manganese Mn Ib/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
7	Adjust pH to 6.8	0	1.5				0			0			

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Page 1 of 2

Report Number: 16-328-0714

Account Number: 70594

Send To: Recyc Systems Inc Susan Trumbo

> 8455 Whiteshop Road Culpepper VA 22701



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"Every acre...Every year." 1st

Grower: Carl Eppard Greene Co GRCFE

SOIL ANALYSIS REPORT

Analytical Method(s):

SMP Buffer pH

Mehlich 3

Loss On Ignition Water pH

Date Received: 11/23/2016

Date Of Analysis: 11/28/2016

Date Of Report: 11/28/2016

		ОМ	W/V	ENR		Phospl	horus		Potassium	Magnesium	Calcium	Sodium	ļ p	Н	Acidity	C.E.C
Sample ID Field ID	Lab Number	% Rate	Soil Class	lbs/A	M3 ppm Rate	ppm	Rate	ppm Rate	K ppm Rate	Mg ppm Rate	Ca ppm Rate	Na ppm Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1	24433	4.7		132	43 M				59 L	179 H	1140 M		6.2	6.83	1.0	8.3
		М							<u> </u>							
6	24434	4.7		131	57 H				52 VL	167 H	1253 H		6.2	6.82	1.1	8.9
		М		1												

		Perce	nt Base	Saturati	on	Nitrate	Sulfur	Zin	С	Manga	nese	Iron	Copper	Boron	Soluble Salts	
Sample ID Field ID	K %	Mg %	Ca %	Na %	H %	NO ₃ N ppm Rate	S ppm Rate	Zr ppm	n Rate	Mr ppm	n Rate	Fe ppm Rate	Cu ppm Rate	B ppm Rate	SS ms/cm Rate	
1	1.8	18.0	68.7		12.0			3.9	Н	52	VH					
6	1.5	15.6	70.4		12.4			2.7	М	35	Н					

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by Waypoint Analytical Virginia, Inc.

Pauric McGroary

Page 2 of 2

Report Number: 16-328-0714

Send To: Recyc Systems Inc Susan Trumbo

Account Number: 70594

Waypoint. W

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

"Every acre...Every year."™

Grower: Carl Eppard
Greene Co GRCFE

Date Received: 11/23/2016

8455 Whiteshop Road

Culpepper VA 22701

Date Of Report: 11/28/2016

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N Ib/A	Phosphate P ₂ O ₅ Ib/A	Potash K ₂ O Ib/A	Magnesium Mg Ib/A	Sulfur S Ib/A	Zinc Zn Ib/A	Manganese Mn lb/A	Iron Fe Ib/A	Copper Cu Ib/A	Boron B Ib/A
1	Adjust pH to 6.8	0	1.3				0			0			
6	Adjust pH to 6.8	0	1.3				0			0			

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

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Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet (Fall, 2017-Winter, 2019) Carl F. Eppard Planner: John Doe

Tract: 245

Location: Greene

(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	 Net = Needs - appld N-P-K (lbs/ac)		Commercial N-P-K (lbs/ac)	Notes	
24, 6/GRCFE 1(N)	25/25	2017	Hay/Pasture	100-40-110	0/0			100-40-110	N/A			
3/GRCFE 2(N)	20/20	2017	Hay/Pasture	120-70-145	0/0	_		120-70-145	N/A			
1, 2, 3/GRCFE 3(1P)	15/15	2017	Hay/Pasture	120-0-170	0/0			120-0-170	38			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Notes:

Tract: 3119 Location: Greene {N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed}

·	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/BiosId Rate & Type (season)		Man/Bios N-P-K (Ibs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
5/GRCTE 4(1P)	12/12	2017	Hay/Pasture	120-0-145	0/0		† −		120-0-145	47			
2, 6, 7/GRCTE 5(N)	21/21	2017	Hay/Pasture	100-40-95	0/0				100-40-95	N/A			
3/GRCTE 6(N)	6/6	2017	Hay/Pasture	0-0-0	0/0				0-0-0	N/A			
1/GRCTE 7(N)	6/6	2017	Hay/Pasture	0-0-0	0/0				0-0-0	N/A			
4/GRCTE 8(1P)	5/5	2017	Hay/Pasture	120-0-145	0/0				120-0-145	46			

Commercial Application Methods: br - Broadcast ba - Banded sd - Sidedress

Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K20	Lab	Soil pH	Lime Date	rec. lime tons/Ac
245	GRCFE 1	25	2016-Fa	M+ (43 P ppm)	M- (59 K ppm)	A&L MIII	6.2		
245	GRCFE 2	20	2017-Fa	M+ (41 P ppm)	H- (125 K ppm)	A&L MIII	6.2		
245	GRCFE 3	15	2017-Fa	VH (171 P ppm)	M (104 K ppm)	A&L MIII	6.7		
3119	GRCTE 4	12	2017-Fa	VH (148 P ppm)	H- (142 K ppm)	A&L MIII	5.8		
3119	GRCTE 5	21	2017-Fa	H- (51 P ppm)	M (76 K ppm)	A&L MIII	6.		
3119	GRCTE 6	6	2017-Fa	M (39 P ppm)	M- (56 K ppm)	A&L MIII	5.9		
3119	GRCTE 7	6	2017-Fa	H- (59 P ppm)	M (81 K ppm)	A&L MIII	6.1		
3119	GRCTE 8	5	2017-Fa	VH (148 P ppm)	H- (142 K ppm)	A&L MIII	5.8		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
245	245/24, 6	GRCFE 1	25	Kinkora	IVa	IV	111	IV	
	245/3	GRCFE 2	20	Comus	Ilb	11	{	II	
	245/1, 2, 3	GRCFE 3	15	Comus	lla	II	II	II	
3119	3119/5	GRCTE 4	12	Comus	lb		1		
	3119/2, 6, 7	GRCTE 5	21	Unison	llb	II	П	II	
	3119/3	GRCTE 6	6	Kinkora	V	V	Not Suited	Not Suited	
	3119/1	GRCTE 7	6	Kinkora	V	V	Not Suited	Not Suited	
	3119/4	GRCTE 8	5	Comus	lb	I	1	1	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	<100	<50	<40	NA	NA

Farm Summary Report

Plan: New Plan Fall, 2017 - Winter, 2019

Farm Name: Carl F. Eppard

Location: Greene
Specialist: John Doe
N-based Acres: 78.0
P-based Acres: 31.6

Tract Name: 245 FSA Number: 245

Location: Greene

Field Name: GRCFE 1

Total Acres: 25.30 Usable Acres: 25.30

FSA Number: 24, 6 Tract: 245

Location: Greene

Slope Class: A Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Fa-2016 6.2 M+(43 P ppm) M-(59 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

23	Cn	Codorus
8	Hb	Hatboro
57	Kn	Kinkora
12	UnA	Unison

Field Warnings:

Field Name: **GRCFE 2**

Total Acres: 19.90 Usable Acres: 19.90

FSA Number: 3 245 Tract:

Location: Greene

Hydrologic Group: Slope Class: Α D

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE Κ Lab PH

H-(125 K ppm) Fa-2017 6.2 M+(41 P ppm) A&L MIII

Soils:

SYMBOL **SOIL SERIES PERCENT** Comus Cs 68

29 Hb Hatboro Kinkora 3 Kn

Field Warnings:

Field Name: **GRCFE 3**

Total Acres: 15.30 Usable Acres: 15.30 FSA Number: 1, 2, 3 Tract: 245

Location: Greene

Slope Class: A Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab Fa-2017 6.7 VH(171 P ppm) M(104 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES
77 Cs Comus
3 Cv Craigsville
19 Kn Kinkora
1 UnB Unison

Field Warnings:

Tract Name: 3119 FSA Number: 3119

Location: Greene

Field Name: GRCTE 4

Total Acres: 11.60 Usable Acres: 11.60

FSA Number: 5 Tract: 3119

Location: Greene

Slope Class: A Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Fa-2017 5.8 VH(148 P ppm) H-(142 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

92 Cs Comus 8 Cv Craigsville

Field Warnings:

Field Name: GRCTE 5

Total Acres: 21.10 Usable Acres: 21.10

FSA Number: 2, 6, 7 Tract: 3119

Location: Greene

Slope Class: B Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PΗ 6.0

Р

H-(51 P ppm)

Κ

Lab

M(76 K ppm)

A&L MIII

Soils:

Fa-2017

PERCENT

SYMBOL

SOIL SERIES

21 23

Cn Cs

Codorus Comus

5

EnC3 Elioak Kn

16

Kinkora

34

Unison UnB

Field Warnings:

Field Name:

GRCTE 6

Total Acres:

6.00 Usable Acres: 6.00

FSA Number:

3

Tract:

3119

Location:

Greene

Slope Class:

Hydrologic Group: Α

D

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE

PΗ

Κ M-(56 K ppm)

Lab

Fa-2017 5.9 M(39 P ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

100 Kn Kinkora

Field Warnings:

Field Name: GRCTE 7

Total Acres: 5.70 Usable Acres: 5.70

FSA Number: 1 Tract: 3119

Location: Greene

Slope Class: A Hydrologic Group: D

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

N-based

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH P K Lab

Fa-2017 6.1 H-(59 P ppm) M(81 K ppm) A&L MIII

Soils:

PERCENT SYMBOL SOIL SERIES

91 Kn Kinkora 9 UnC Unison

Field Warnings:

Field Name: GRCTE 8

Total Acres: 4.70 Usable Acres: 4.70

FSA Number: 4 Tract: 3119 Location:

Greene

Slope Class:

Hydrologic Group:

D

Riparian buffer width: 0 ft Distance to stream: 0 ft

Conservation Practices:

Pasture (>75% cover)

P-Index Summary

P-based(1.0)

Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE PH F

Κ

Lab

Fa-2017

5.8 VH(148 P ppm)

H-(142 K ppm)

A&L MIII

Soils:

PERCENT

SYMBOL

SOIL SERIES

92

Cs Comus

9

Cv Craigsville

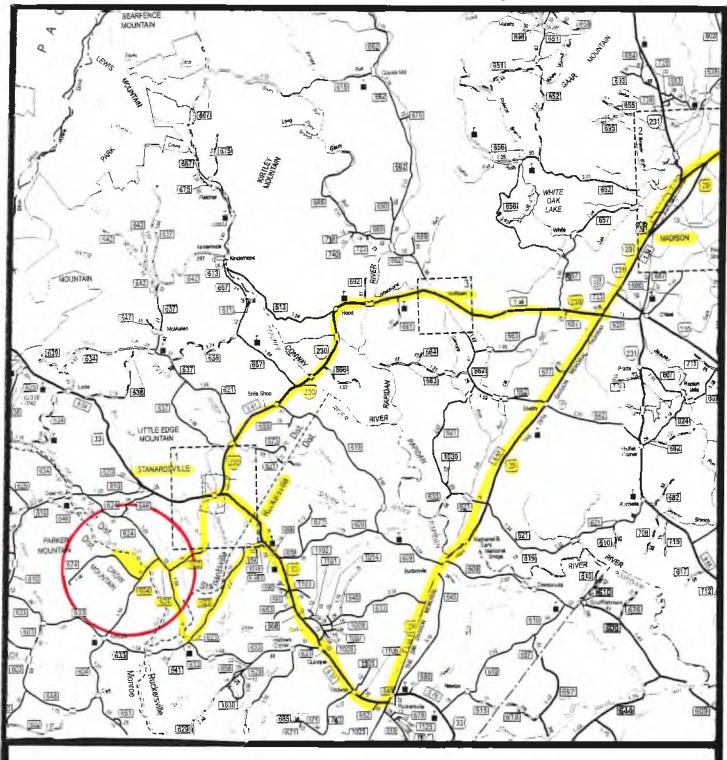
Field Warnings:

MAPS

Recyc Systems Inc.

(Biosolids Land Application)





Scale:

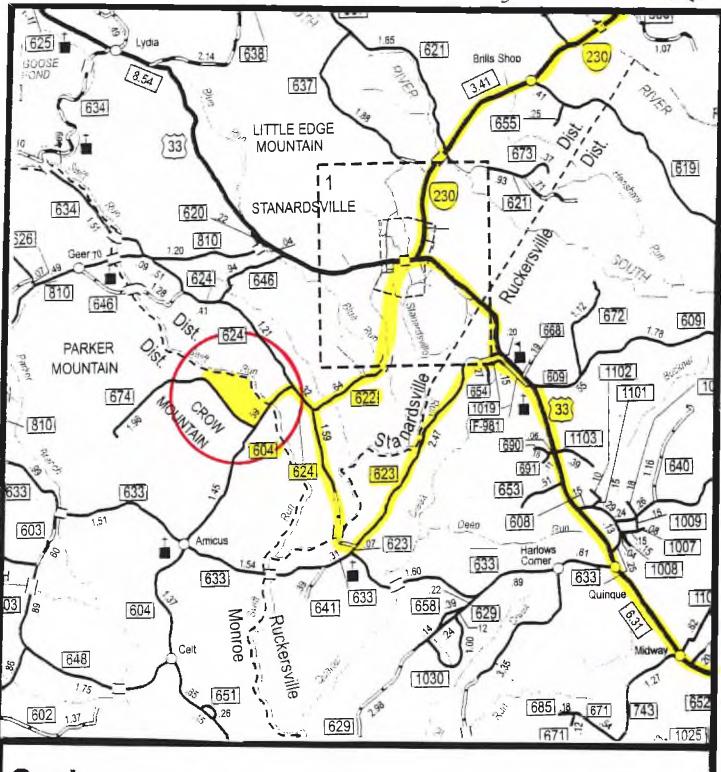
1"= 2 miles

GRCFE 1-8

Recyc Systems.

(Biosolids Land Application)

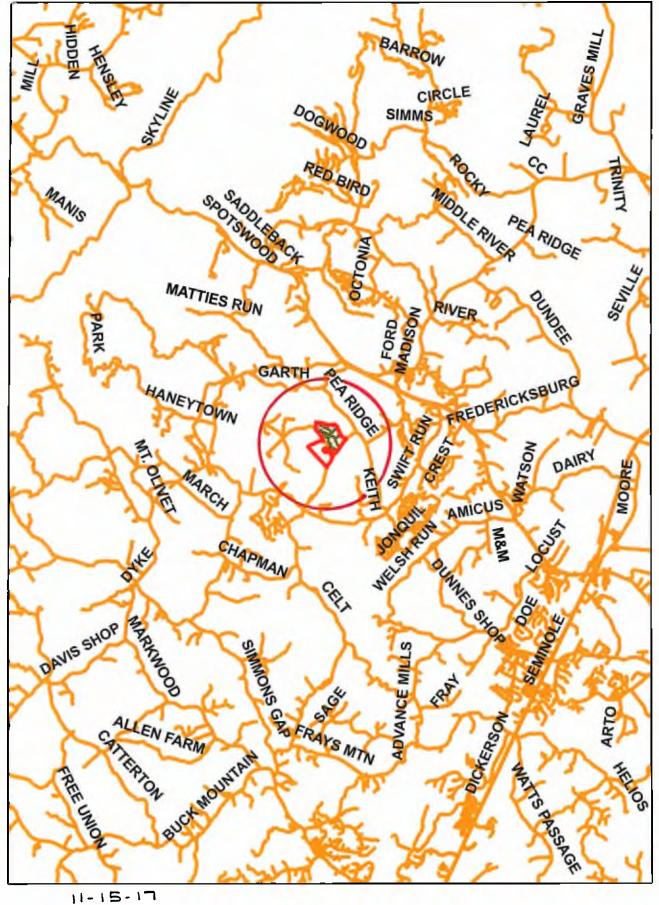




Scale: 1"= 1 mile

GRCFE 1-8

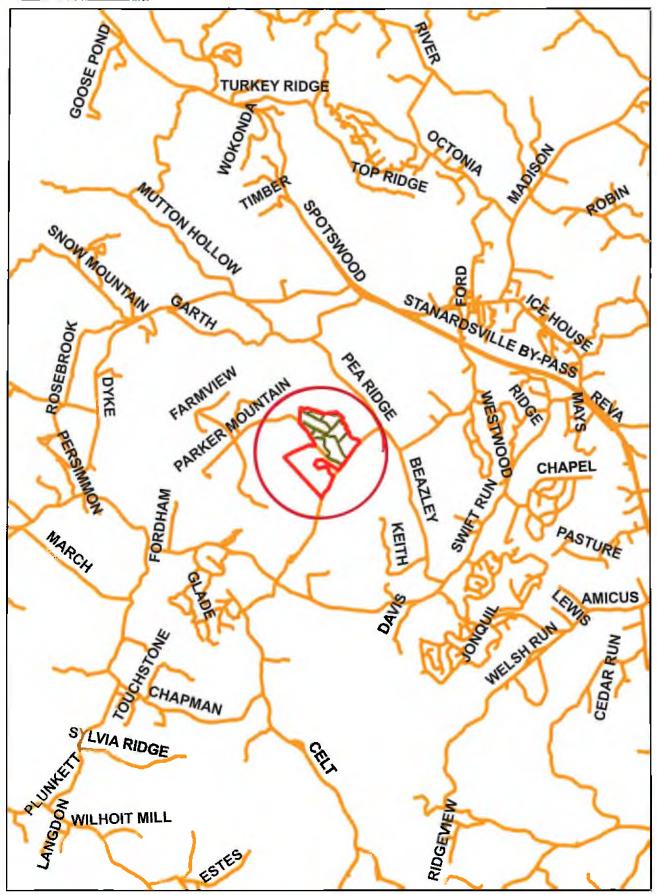




Vicinity Map

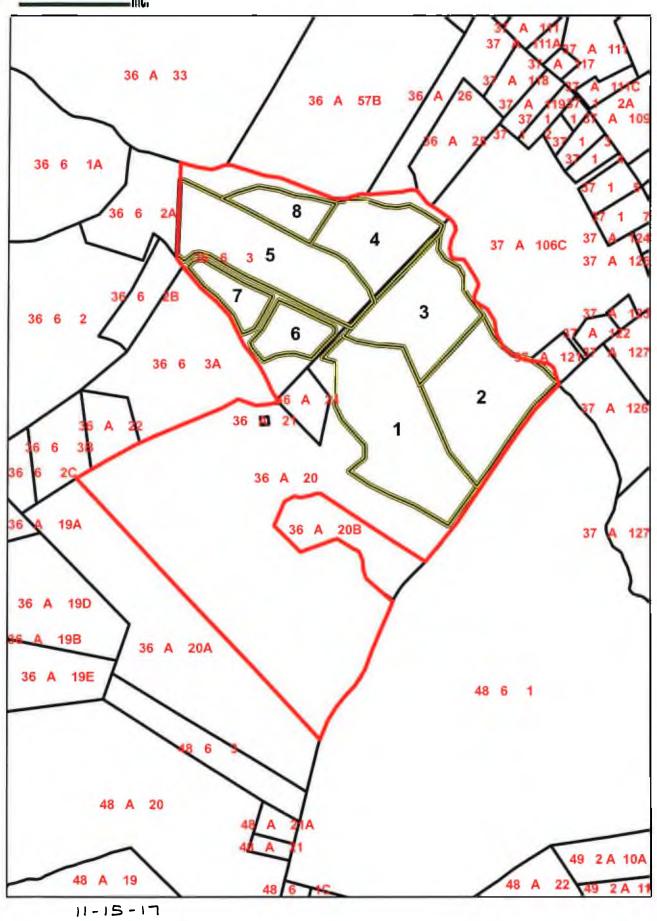
1 in = 2 miles



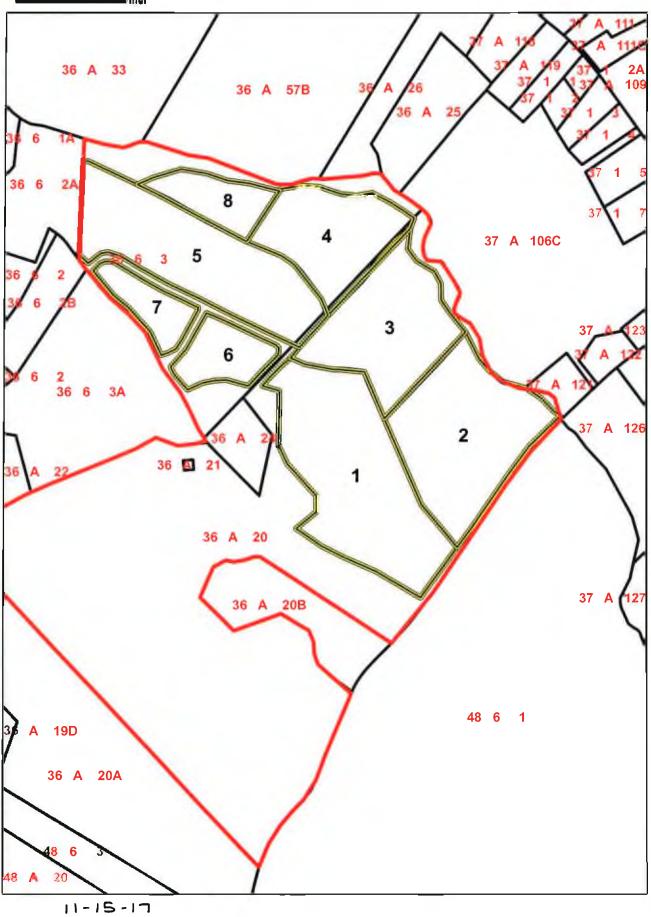




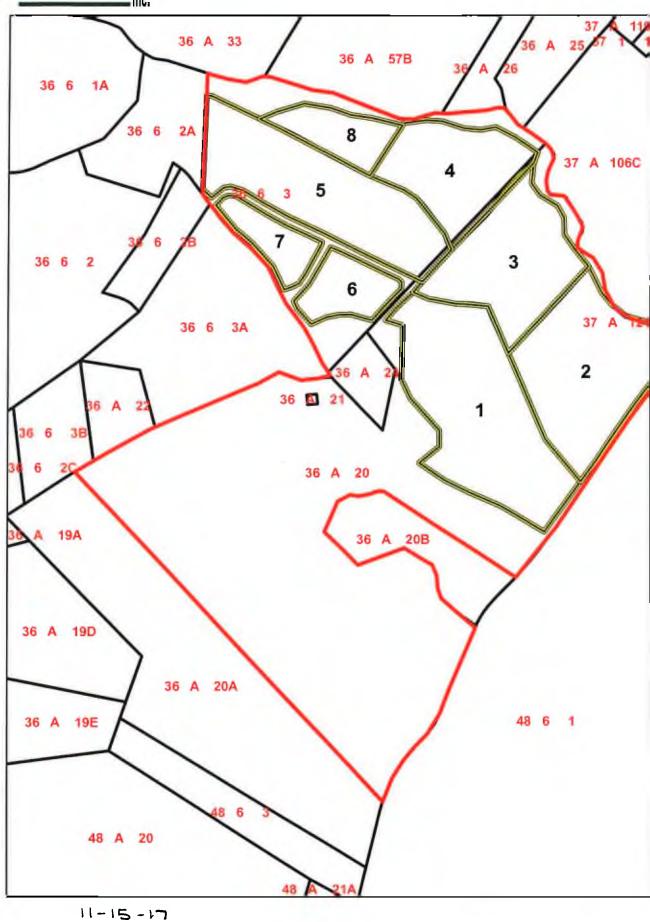
Carl F. Eppard GRCFE











ADJOINING LANDOWNERS

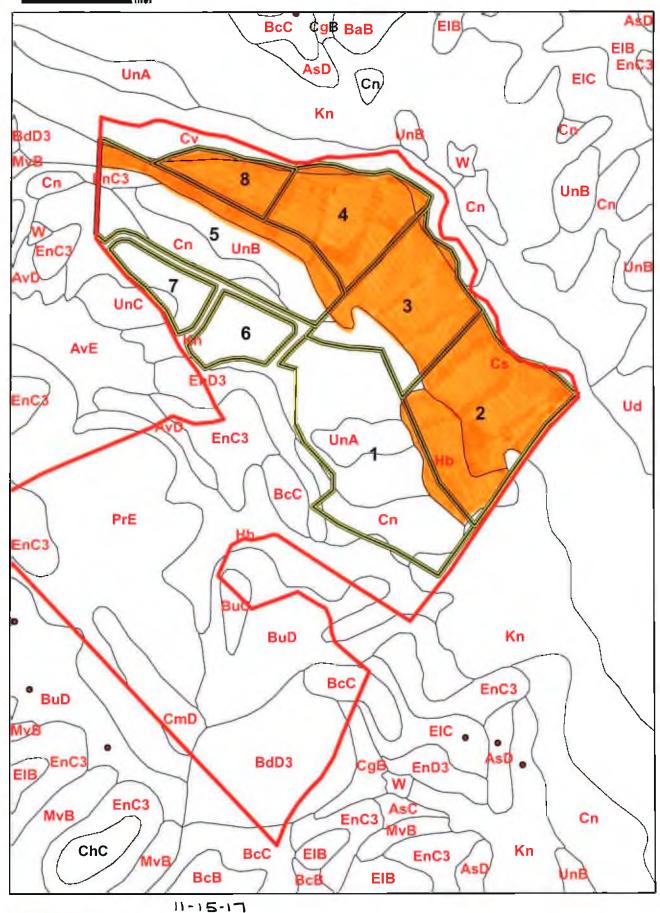
Carl F. Eppard

GREENE COUNTY

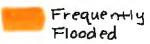
Tax Map	Parcel #	Owner Name(s)
•		
36	6-2A	John C. and Ruthann A. Ewing
	6-2B	James Scott and Nancy A. Schisser Trustees Schisser Family Trust
	6-3A	Carl F. and Anne W. Eppard Trustees of Carl F. Eppard Rev Trust
<u> </u>	6-3B	Carl F. and Anne W. Eppard
	A-20A	Carl F. and Anne W. Eppard Trustees of Carl F. Eppard Rev Trust
	A-20B	Darryl K. Eppard
	A-21	Cemetery
	A-22	Carl and Anne Eppard
1 .	A-25	Crystal Michelle Powell
	A-26	Crystal Michelle Powell
1	A-33	Hugh B. and Willie J. Collier
	A-57B	Deborah G. and Leabert W. Deane and Amy D. Wayland
25	A 100	
37	A-106	Larry S. and Emogene S. Powell
	A-121	Larry S. and Emogene S. Powell
	A-126	Columbia Gas Transmission Corp. Attn: Tax Dept.
48	6-1	Mickey L. Cox Trustee Under the Mickey L. Cox Rev Trust



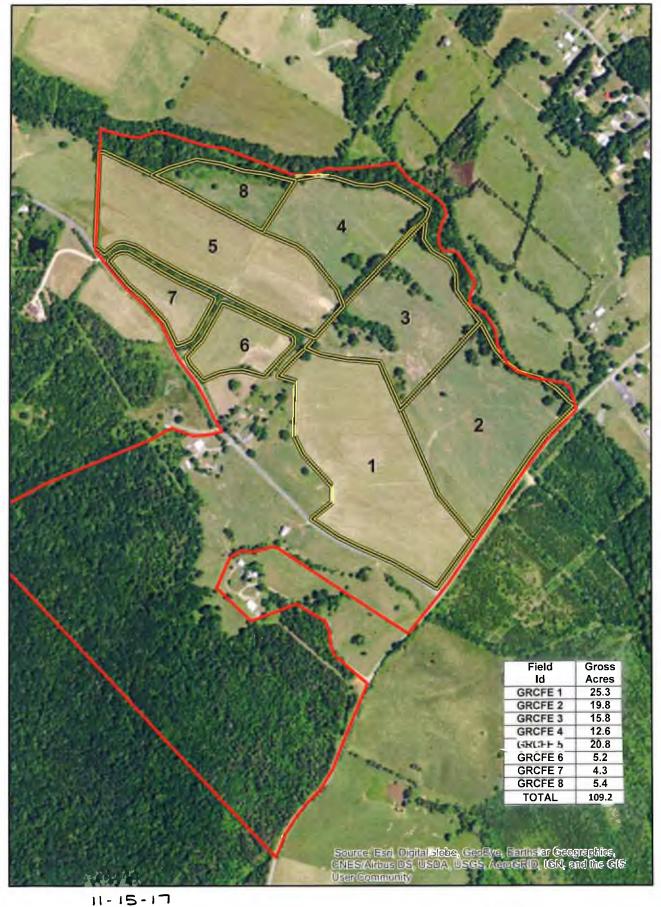
Carl F. Eppard GRCFE



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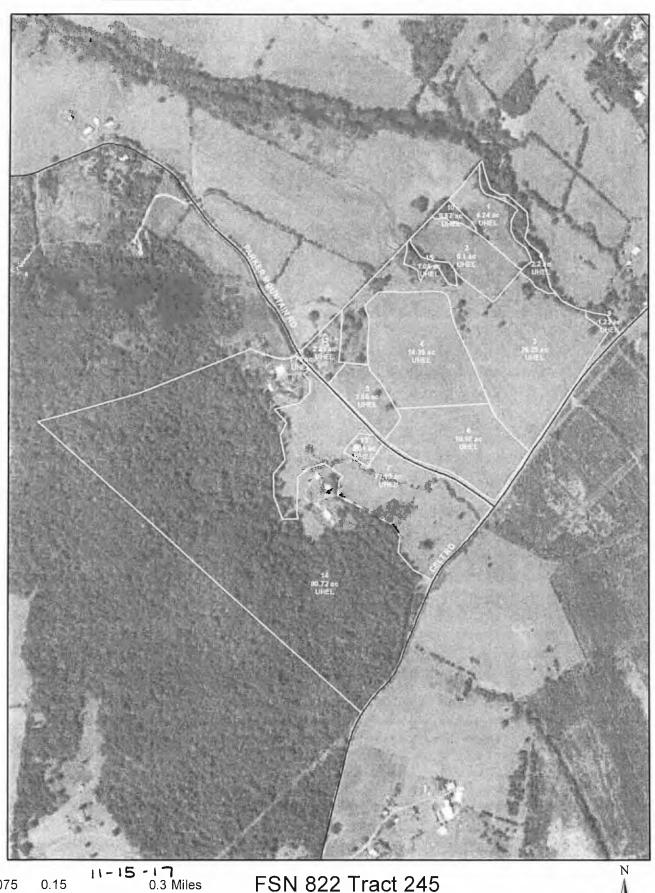




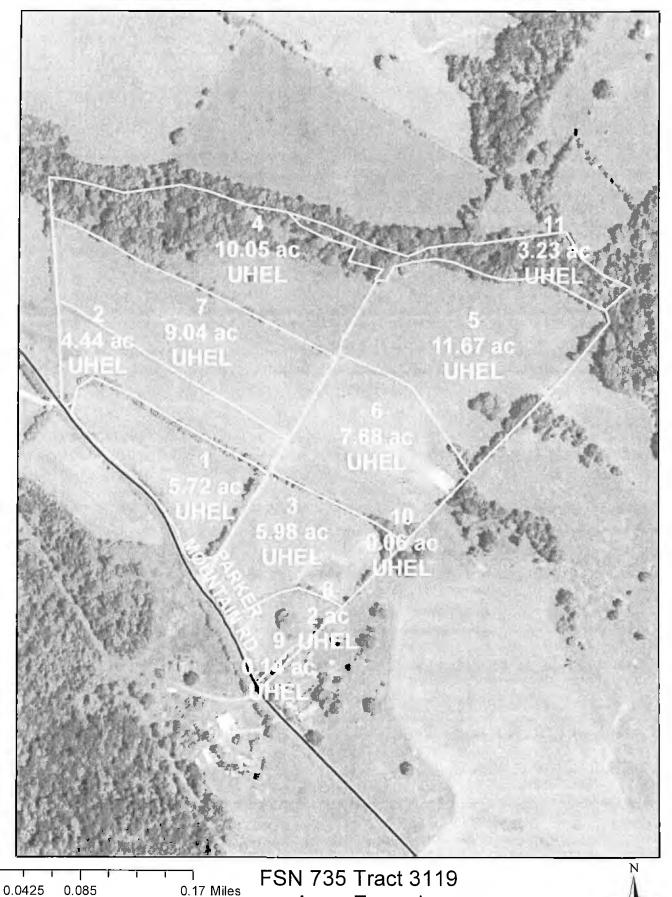




USDA UNITED STATES DEPARTMENT OF AGRICULTURE



0.075 0.15 0.3 Miles FSN 822 Tract 245
Ann Eppard



11-15-17

Anne Eppard

Legend For Site Plan

Symbol	Feature	Minimum Setback
HW	House and Well	200 feet from occupied dwelling * 100 feet from water supply wells or springs
W 3	Well or Spring	100 feet from water supply wells or springs
	Streams or Surface Water	35 feet with 35 foot vegetated buffer 100 feet without vegetated buffer
ш	Wet Spot	
	Trees and Woods	
	Private Drive	
R	Rock Area/Rock Outcrop	25 feet from rock outcrops 50 feet from limestone rock outcrops
=	Severely Eroded Spot	18 Inch minimum depth of soil
	Sink Hole	100 feet from open sinkholes 50 feet from closed sinkholes
	State Road	10 feet from side of roadway
	Fence / Field Boundary	
_P _ P_ P_	Property Line	100 feet from property line *
SL S	Slope	15% maximum
	Hashed out Area	No application

^{*}Buffer can be reduced or waived upon written consent from landowner.

